DANIEL PEELEN

(717) 572-8937 | dapeelen@gmail.com | linkedin.com/in/daniel-peelen | https://dannypeelen.com | https://github.com/dannypeelen

EDUCATION

University of Pittsburgh, School of Computing and Information

B.S, Computer Science, Hungarian

- **Achievements:** Dean's List, 3.9 GPA
- **Coursework:** Introduction to Deep Learning, Introduction to Machine Learning, Data Structures & Algorithms, Systems Software

WORK EXPERIENCE

Machine Learning Engineer Intern **June 2025 - Aug 2025**

Thursday *Pittsburgh, PA*

- Built an Dockerized end-to-end recommendation pipeline (ingest data →build features →train model →serve)
- Implemented CI/CD (GitHub Actions + Docker) and canary staging; added real-time monitoring to cut rollback time.
- Integrated model endpoints into React frontend with < 200ms latency per prediction, scaled system for ~10k MAUs.

Software Engineering Intern **May 2025 - Aug 2025**

PNC Financial Services Inc. *Pittsburgh, PA*

- Built a Spring Boot + Angular micro-app from scratch to analyze housing data, set to be integrated into production.
- Standardized error handling and refactored back-end logic, shipping changes biweekly in an Agile team.
- Wrote Angular unit tests, raising coverage by 40% across the application to meet SonarQube requirements.

Teaching Assistant for Discrete Mathematics **Aug 2024 - Dec 2024**

University of Pittsburgh School of Computing and Information *Pittsburgh, PA*

- Led recitations (~30 students), office hours, and built problem sets, improving exam scores from the previous year by 6%.
- Ran focused sessions, iterating through key material while factoring in student feedback to build algorithmic thinking skills.

Data Analyst **Sep 2023 - Dec 2024**

University of Pittsburgh Women's Volleyball *Pittsburgh, PA*

- Coded 40+ matches and produced 25+ scouting reports alongside coaches, used for enhanced practice quality and match prep.
- Implemented strategies to optimize practices in real-time, using constant communication to ensure maximum efficiency.

PROJECTS

AnkiMate **May 2025**

Tech: Python, HuggingFace (Flan-T5), PyTorch, Flask, React

- Automated PDF/PPT →flashcard pipelined; fine-tuned model on self-built 10k-row dataset, reduced validation loss by 58%.
- Designed and deployed a **Flask backend** for flashcard and file generation; used **React** with Tailwind CSS for a responsive UI.
- Implemented A/B testing and deployed via GitHub, reaching high satisfaction among ~50 users.

GPT-2 Prototype **April 2025**

Tech: PyTorch, NumPy, HuggingFace

- Implemented minimal GPT-2 (attention, GeLU, LayerNorm) with HuggingFace weights; matched behavior and loss within 10%.
- Developed a custom model loader for HuggingFace GPT-2 weights, fixing parameter mismatches and shape incompatibilities.

SKILLS

- **Programming Languages:** Python, Java, JavaScript, C/C++, SQL, HTML5, CSS
- **Libraries/Frameworks:** PyTorch, Docker, React, HuggingFace, NumPy, Pandas, Kafka, Angular, Hadoop, NodeJS, Spring Boot
- **Technical Skills:** Unit Testing, CI/CD, Deep Learning, Machine Learning, Natural Language Processing, APIs, A/B Testing
- **Languages:** English (native), Hungarian (conversational)

EXTRACURRICULARS

Officer, Computer Science Club @ Pitt

- Help organize speakers from Microsoft, Google, and Amazon for the largest organization on Pitt campus.
- Increased unique attendance by 40% and helped in growing the Instagram account to almost 15,000 followers.

Director, SteelHacks

- Secured connections with organizations at UC Berkeley, CMU, and Columbia through email campaigns.
- Helped bring in over 300+ attendees from 20+ schools and sponsors, including Google, Amazon, and PNC.

Officer, Quiz Bowl

- Placed 3rd in the national tournament against top schools and organized several tournaments for local high school teams.

CITIZENSHIP

USA, Hungary